

# ASYMTEK Select Cure UV-9 Cure Oven

**Ultraviolet Light Curing for Conformal Coating Applications** 

The Select Cure® UV-9 inline oven is ideal for top and bottom ultraviolet light curing in mid- to high-volume production.

Arc lamp technology, with adjustable UV intensity, is at the core of the UV-9 cure system. An oversized lamp spans the oven's entire width, producing a uniform intensity profile across the part. This technology is combined with a unique ventilation design that dissipates heat, keeping the temperature and rate of rise at acceptable levels. This allows the lamp to run cooler and last longer for maximum throughput.

Optional closed-loop power monitoring ensures process reliability and compensates for lamp degradation by measuring and adjusting UVA power levels to maintain the desired profile within +/-5% of the programmed specifications.

A standard 5 mm-pin SMEMA-compatible chain conveyor, configured for left-to-right or right-to-left flow with electrical width adjustment, is easily integrated with any ASYMTEK conformal coating system.

#### **Features and Benefits**

- Three lamp modules are available: 420 mm (120W/cm), 220 mm (140W/cm), and 220 mm High Power (200W/cm).
- Adjustable power levels.
- Will not interfere with wireless networks.
- Top and bottom ultraviolet light curing of materials up to 420 mm (16.5 in.).
- Optional closed-loop power monitoring of lamp power to ensure consistent curing.
- Software tracking of lamp life.
- Low maintenance and easy to operate.



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### **Specifications**

Arc Lamp 505 mm	Focal length: 100 mm (3.94 in.) standard Length (board width): Optimized for 420 mm (16.5 in.) Power: 100 W/cm (254 W/inch) Lamp options:  Standard = Mercury-doped lamp (optimized for UVC) Mercury-Iron (rich in UVA) Mercury-Gallium (broadband output along all wavelengths) Others available upon request			
Dimensions	1400 x 1200 x 1526 mm (55.12 x 47.24 x 60.1 in.) 2086 mm (82.13 in.) including beacon			
Noise Level	68 dB @ 1 m			
Light Tower	Red solid: Alarm			
3-light configuration with buzzer	Orange solid: The oven is not ready (starting up, cooling down, downstream SMEMA is not ready, etc.)			
	Green flashing: The lamp is in standby mode, but depending on the upstream SMEMA status, the oven is ready for production.			
	Green solid: Run			
Conveyor	Component clearance	100 mm top and bottom		
5 mm-pin chain	Conveyor height	920 to 1000 mm (36.22 to 39.37 in.)		
conveyor	Conveyor speed	300 to 1500 mm/min (1-4.92 ft/min)		
	Conveyor width	50 to 420 mm (1.97 to 16.54 in.)		
	Conveyor length	1400 mm (55.12 in.)		
	Maximum load	4Kg/m (2.69 lbs/ft) evenly distributed		
Exhaust/ Ventilation	10.83 m3/min @ 40 mm WC, 250 mm exhaust duct			
	(382.5 SCFM @ 1.57 in. WC, 10 in. exhaust duct)			
Facilities Requirements		Single-Sided	Double-Sided	
	Voltage	400/480 VAC	400/480 VAC	
	Phases	3	3	
	Mode	N+EARTH, TT or TN	N+EARTH, TT or TN	
	Power rating	6.5 KW	12.5 KW	
	Weight	430 kg	580 kg	
	Power: 400/480 VAC 3 phases			
	Air supply for shutters: 6.0 bars (87 psi) max.			



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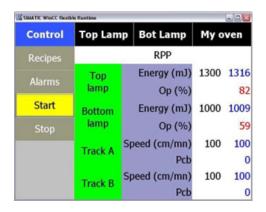
## **Specifications**

Standard Features	Integrated operator interface on coating system			
	Software-controlled conveyor width adjustment			
	Light beacon			
	Exhaust control			
	Door and safety interlocks			
	E-stop			
	SMEMA compatible conveyor			
Options	Close-loop UVA lamp regulation			
	Traffic control			
	Board counter			
	Board jam detection (entry and exit)			
	Automatic width adjust for conveyors			
	Right-to-left conveyor direction			
	Heavy-duty conveyor:	8 kg/m (5.38 lbs/ft) evenly distributed Reduces maximum conveyor width to 400 mm (1.3 ft)		
	Traceability software			
	Entrance conveyor covered extension			
	Exit conveyor covered extension			
	Recipes and data log storage			
	Touch screen for oven monitoring and control			
	Special paint			
	Dual-lane conveyor			
	Iron-doped lamp			
	Gallium-doped lamp			
	Power packs for different power configurations			
	Inlet and outlet shutters (air supply required)	220 mm lamp (140W/cm) 220 mm lamp (200W/cm)		



### Select Cure UV-9 Cure Oven

#### **System Details**



Select Cure UV-9 Software

For more information, visit our website to find your local regional office or representative.

We have several global locations to serve you.

North America Asia Pacific EMEA

www.nordson.com/electronics info-electronics@nordson.com



Select Cure UV-9 In-line with the ASYMTEK Select Coat SL-940 Conformal Coating System